

TEXACO INC.
INDUSTRIAL HYGIENE, TOXICOLOGY, AND MATERIAL
SAFETY DATA SHEET

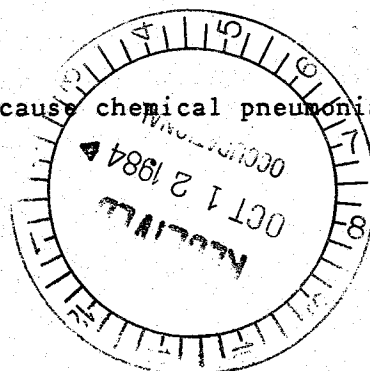
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NOTE: NO REPRESENTATION IS MADE AS TO THE ACCURACY OF THE INFORMATION
HEREIN. SEE PAGE 5 FOR CONDITIONS UNDER WHICH DATA ARE FURNISHED.

CATEXAC01

Trade Name and Synonyms 01537 AIRCRAFT HYDRAULIC OIL 15	
Manufacturer's Name Texaco Inc	Emergency Telephone No. (914) 831-3400 ext. 406
Address P.O. Box 509 Beacon, NY 12508	
Chemical Name and/or Family or Description Aircraft Hydraulic Oil	
THIS PRODUCT IS CLASSIFIED AS: <input checked="" type="checkbox"/> HAZARDOUS BY DEFINITION NO.(S) 1 <input type="checkbox"/> NOT HAZARDOUS: ON ATTACHED EXPLANATION SHEETS	
WARNING STATEMENT: CAUTION: COMBUSTIBLE Ingredients?	
OCCUPATIONAL CONTROL PROCEDURES	
Protective Equipment (Type)	
Eyes:	Chemical type goggles or face shield optional.
Skin:	Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin areas several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least weekly.
Inhalation:	None required if exposures are within permissible concentrations; see below.
Ventilation:	Normal
Permissible Concentrations:	
Air:	5 mg/cubic meter of air for mineral oil mist averaged over an 8 hour daily exposure (ACGIH 1983).
EMERGENCY AND FIRST AID PROCEDURES	
First Aid	
Eyes:	As with most foreign materials, should eye contact occur, flush eyes with plenty of water.
Skin:	None considered necessary.
Ingestion:	Do NOT induce vomiting. Aspiration may cause chemical pneumonia.
Inhalation:	None considered necessary.
Other Instructions:	None.



**PHYSIOLOGICAL EFFECTS:**Code
No. 01537**Effects of Exposure****Acute:**

Eyes: Believed to be minimally irritating.

Skin: Believed to be minimally irritating. May cause dermatitis on prolonged or repeated contact.

Respiratory System: Believed to be minimally irritating if not in excess of permissible concentrations; see page 1.

Chronic: N.D.

Other: -

Sensitization Properties:Skin: Yes ☐ No ☐ Unknown ☒Respiratory: Yes ☐ No ☐ Unknown ☒**Median Lethal Dose (LD₅₀ LC₅₀) (Species)**Oral N.D.; believed to be G.T. 5 g/kg (rat); practically non-toxicInhalation N.D.Dermal N.D.; believed to be G.T. 3 g/kg (rabbit); practically non-toxicOther N.D.**Irritation Index, Estimation of Irritation (Species)**Skin N.D.; believed to be L.T. 0.5/8.0 (rabbit); no appreciable effectEyes N.D.; believed to be L.T. 15/110 (rabbit); no appreciable effectSymptoms of Exposure N.D.; None expected other than possible minimal irritation**FIRE PROTECTION INFORMATION**Ignition Temp. F. N.D.Flash Point F. (Method) 180 F (PM)Flammable Limits% Lower N.D.Upper N.D.**Products Evolved When Subjected to Heat or Combustion:**

Carbon monoxide, carbon dioxide, aldehydes and ketones, combustion products of nitrogen and sulfur.

Recommended Fire Extinguishing Agents And Special Procedures:

According to the National Fire Protection Guide 49, combustible liquid fires may be extinguished by water spray, dry chemical, foam or carbon dioxide. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.

Unusual or Explosive Hazards:

None.

**ENVIRONMENTAL PROTECTION**Code
No. 01537**Waste Disposal Method:**

Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixture, processes, etc. may render the resulting material hazardous. (See Remarks for Waste Classification.)

Procedures in Case of Breakage or Leakage:

Contain spill if possible. Wipe up or absorb on suitable material and shovel up.

Remarks:

Waste Classification: Product has been evaluated for RCRA characteristics and does not meet criteria of a hazardous waste if discarded in its purchased form.

PRECAUTIONARY LABEL**CAUTION: COMBUSTIBLE**

Keep away from heat and flame.
Use only in well-ventilated locations.
Avoid prolonged breathing of vapor or mist.
Avoid prolonged or repeated contact with skin.
Keep head away from container when opening or dispensing

Requirements for Transportation, Handling and Storage:

Store away from heat and open flame. Placard required only when material is contained in packaging container that exceeds 110 gallons or in tank car or tank truck.

DOT Proper Shipping Name: Combustible liquid, N.O.S.

DOT Hazard Class (if applicable): Combustible liquid NA1993

CHEMICAL AND PHYSICAL PROPERTIES

Boiling Point (°F) N.D.

Vapor Pressure N.D. (mmHg)

Specific Gravity .8602 ($H_2O=1$)

Vapor Density N.D. (Air=1)

Appearance and Odor RED

pH of undiluted product N.A.

Solubility N.D.

Percent Volatile by Volume N.D.

Evaporation N.D. ()=1

Viscosity cSt @ 40 C = 13.2

Other -

Hazardous Polymerizations - Occur X Do not occur

The Material Reacts Violently With: (If others is checked below, see additional comments on page 4 for further details)

Air Water Heat Strong Oxidizers Others None of These
X

N.D. - Not Determined N.A. - Not Applicable
< Less Than > Greater Than



COMPOSITION		Code No.
Components Presenting a Significant Hazard		01537
None		%
Other Components		%
Petroleum oil	65 - 80	
Methacrylate polymer	20 - 35	
Triaryl phosphate	Less than 1	
Ditertiarybutylphenol	Less than 1	
ADDITIONAL COMMENTS		
TEXACO INTENDS TO COMPLY FULLY WITH PROVISIONS OF THE TOXIC SUBSTANCES CONTROL ACT STATE OF MICHIGAN CRITICAL MATERIALS ACT (REVISED 1983) No critical materials present.		
To determine applicability or effect of any law or regulation with respect to this product, user should consult his legal advisor or the appropriate government agency. Texaco does not undertake to furnish advice on such matters.		
By <u>R. T. Richards</u>	Title <u>Mgr. Env. Conservation & Toxicology</u>	
Date <u>01-07-83</u>	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Revised, Supersedes

N.D. - Not Determined N.A. - Not Applicable
< Less Than > Greater Than



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**EXPLANATION OF THE INDUSTRIAL HYGIENE
TOXICOLOGY, AND MATERIAL SAFETY DATA SHEET**

PRODUCT INFORMATION

Trade Name and Synonyms

Refer to the code number and name under which the product is marketed and the common commercial name of the product.

Manufacturer's Name and Address Self explanatory.

Chemical Name and/or Family or Description

Refer to chemical, generic, or descriptive name of single elements and compounds.

For purposes of this form, a product is defined as hazardous if it possesses one or more of the following characteristics: (1) has a flash-point below 200 degrees Fahrenheit, closed cup or subject to spontaneous heating; (2) has a threshold limit value below 500 ppm gases and vapor below 5 mg/m³ for dust, fumes and mist, and below 25 MPPCF for mineral dust; (3) a single dose oral LD50 below 500 mg/kg; (4) causes burns to the skin in the short-term exposure or is systemically toxic by skin contact; (5) has been demonstrated to be a skin or eye irritant or causes respiratory irritation; (6) may cause skin or respiratory sensitization; (7) has teratogenic, mutagenic or other toxic effects; (8) may cause asphyxia or pneumoconiosis; (9) in the course of normal operations may produce dusts, gases, fumes, vapor, mist, or smoke which have one or more of the above characteristics; (10) is hazardous according to OSHA 1910.1200(g)(2)(vii).

OCCUPATIONAL CONTROL PROCEDURES

(Consult your Industrial Hygienist or Occupational Health Specialist.)

Protective Equipment

Type of protective equipment that is necessary for the safe handling and use of this product.

Ventilation

Normal means adequate to maintain permissible concentrations.

Ventilation: type, i.e. local exhaust, mechanical, etc.

Permissible Concentrations

Indicates Threshold Limit Value (TLV) and / or Time Weighted Average (TWA) as established by the American Conference of Governmental Industrial Hygienists and/or standards promulgated by the Occupational Safety and Health Administration.

EMERGENCY AND FIRST AID PROCEDURES

Give first aid and emergency procedures in case of eye and/or skin contact, ingestion and inhalation.

PHYSIOLOGICAL EFFECTS

Acute Exposures (Eye, Skin, Respiratory System)

Refers to the most common effects that would be expected to occur from direct contact with the product.

Chronic

Refers to the effects that are most likely to occur from repeated or prolonged exposure.

Sensitizer

Means a substance which will cause on or in normal living tissue, through an allergic or photodynamic process, a hypersensitivity which becomes evident on reapplication of, or exposure to, the same substance.

Median Lethal Dose or Concentration (LD50, LC50)

Refers to that dose or concentration of the material which will produce death in 50 per cent of the animals. For inhalation, exposure time is indicated.

Irritation Index

Refers to an empirical score (Draize Method) for eye and skin irritation which tested by the method described. If numbers are not available, a yes or no answer indicates whether or not the material is an irritant.

FIRE PROTECTION INFORMATION

Ignition Temperature

Refers to the temperature in degrees Fahrenheit, at which a liquid will give off enough flammable vapor to ignite and burn continuously for 5 seconds.

Flash Point (State Method used)

Refers to the temperature in degrees Fahrenheit, at which a liquid will give off enough flammable vapor to ignite.



Flammable Limits

Refers to the range of gas or vapor concentration (percent by volume in air) which will burn or explode if an ignition source is present. Lower means the lower flammable limit and upper means the upper flammable limit given in percent.

Products Evolved When Subjected to Heat or Combustion.

The products evolved when this material is subjected to heat or combustion. Includes temperature at which oxidation or other forms of degradation occurs.

Recommended Fire Extinguishing Agents and Special Procedures

Specifies the fire fighting agents that should be used to extinguish fires. If unusual fire hazards are involved or special procedures indicated, this is specified.

Unusual Fire or Explosive Hazards

Specifies hazards to personnel in case of fire, explosive danger.

ENVIRONMENTAL PROTECTION

Specifies how this product can be successfully disposed of.

Indicates precautions necessary in the event that leakage or breakage occurs. Included are (a) clean-up procedures, (b) personal protective equipment if necessary, (c) hazards that may be created, i.e. fire, explosion, etc.

PRECAUTIONARY LABEL

Label that is required or recommended.

Requirements for Transportation, Handling and Storage

Specifies handling and storage procedures. Gives ICC, DOT, or other regulations related to safety and health for transportation.

CHEMICAL AND PHYSICAL PROPERTIES

Boiling Point (or Range)

In degrees Fahrenheit or Celsius Boiling Point at 760 mmHg.

Vapor Pressure

Refers to the pressure of saturated vapor above the liquid expressed in mm of Hg. at 20 degrees Celsius or 68 degrees Fahrenheit.

Specific Gravity

The ratio of the density of the product to the density of water.

Vapor Density

The ratio of the density of the vapor at saturation concentration (20 degrees Celsius or 68 degrees Fahrenheit to the density of air at 760 mmHg.)

Appearance and Odor

Refers to the general characterization of the material, e.g. powder, colorless liquid, aromatic odor, etc.

pH

Refers to the degree of acidity or basicity of the material in a specific concentration.

pH1-5 - STRONGLY ACIDIC
pH5-7 - WEAKLY ACIDIC
pH7-9 - WEAKLY BASIC
pH9-14 - STRONGLY BASIC

Solubility

Refers to the solubility of a material by weight in water at room temperature. The term negligible, less than 0.1 %; slight, 0.1 to 1%; moderate, 1 to 10%; appreciable, 10% or greater. Gives solubility in organic solvents where appropriate.

Percent Volatile by volume

Refers to the amount volatilized at 20 degrees Celsius or 68 degrees Fahrenheit when allowed to evaporate.

Evaporation

Gives the rate of evaporation compared to a standard

Viscosity

Measure of flow characteristics in Kinematic viscosity of Saybolt Universal Seconds.

Hazardous Polymerization

Hazardous polymerization is that reaction which takes place at a rate which produces large amounts of energy. Indicates whether it may or may not occur and under what storage conditions.

Does the Material React Violently

Indicates whether the material will react violently, releasing large amounts of energy when exposed under conditions listed.

Composition

Components of the product as manufactured.

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